

Amendments to the Specification:

Please replace the paragraph beginning on page 4, line 12 with the following rewritten paragraph:

~~Fig. 3 shows~~ Figs. 3a, 3b and 3c show three examples for three different embodiments of a channel exit side which is provided with guide webs oriented in flow direction,

Please replace the paragraph beginning on page 5, line 10 with the following rewritten paragraph:

For accurate guidance of the flow of the fluids a and b at the channel exit sides 3a and 3b, the channels may be provided with webs 6, which are oriented in the flow direction of the fluids (arrow a and b). ~~Fig. 3 shows~~ Figs. 3a, 3b and 3c show three different arrangements for these guide webs at the channel exit side. Furthermore, as shown in connection with the complete micromixer arrangement represented in Fig. 4, the mixing chamber 4 may include a structure dividing the flow for example in the form of a grid 13.

Please replace the paragraph beginning on page 6, line 28 with the following rewritten paragraph:

(p_1 = the pressure loss of the passage i, V_i = the volume flow of the passage i, V_{ges} = total volume flow) is plotted in Fig. 6 for the micromixer according to ~~claim 1~~ the invention with and without downstream grid 13 (set of points B or, respectively C) in comparison with the micromixer of DE 44 46 343 C2. A micromixer with high efficiency has, at one hand, a low pressure loss, which is a measure for the energy consumption

or, respectively, the total energy density in the mixing process, and, on the other hand, a low selectivity $X(Q)$ of the product Q . It is clearly apparent that a certain selectivity $X(Q)$ or, respectively, a certain mixing efficiency of the micromixer according to the invention is achieved already at a substantially lower total energy density E than with the prior art micromixer concept.